

Notice of Allowability

Application No.

10/696,281

Examiner

Nelson D. Hernandez

Applicant(s)

TERAMOTO ET AL.

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2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11 june 2007.
2. ☒ The allowed claim(s) is/are 1-13.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____


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DETAILED ACTION

Drawings

1. The drawings were received on June 11, 2007. These drawings are acceptable.

Response to Amendment

1. The Examiner acknowledges the amended claims filed on June 11, 2007.

Claims 1 and 6-8 have been amended.

Allowable Subject Matter

2. **Claims 1-13** are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest, including all the elements of the present claim, a detector for detecting whether or not each drive speed control value for said designated amount of operation is within a structural resonance range of said image capturing part and, if a drive speed control value for said designated amount of operation is within the structural resonance range of the image capturing part, determine an alternative drive speed control value for that drive speed control value that is not within said structural resonance range from among said plurality of drive speed control values; a changing part for changing said drive speed control value for said

designated amount of operation that is within the structural resonance range of the image capturing part to said alternative drive speed control value to reduce a driving time period for said designated amount of operation; and a controller for controlling said plurality of drivers with said plurality of drive speed control values in which said drive speed control value for said designated amount of operation that is within the structural resonance range of the image capturing part is changed to said alternative speed control value.

Regarding claim 5, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest, including all the elements in the present claim, that wherein, when resonance conditions that: i) said first drive amount is smaller than said second drive amount, and ii) said first drive speed control value is within a structural resonance range of said image capturing apparatus, are satisfied, said setting part changes said first drive speed control value to an alternative speed control value out of said resonance range, and when said resonance conditions are satisfied, said controller controls said second driver drive on the basis of said second drive speed control value and controls said first driver drive on the basis of said alternative speed control value such that said first drive amount is attained by said first driver within a time period in which said second drive amount is attained by said second driver.

Regarding claim 11, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest, including all the elements in the present claim, that said controller is operable to attain said designated amount of

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change in said relative angle with a combination of: a) a first control time period in which said controller controls said first and second drivers on the basis of first and second drive speed control values, respectively, and b) a second control time period following said first time period in which said controller controls said first and second drivers while stopping one of said first and second drivers, wherein said first and second drive speed control values are determined out of a structural resonance range of said image capturing apparatus.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (571) 272-7311. The examiner can normally be reached on 9:30 A.M. to 6:00 P.M..


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached on (571) 272-7372. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nelson D. Hernandez
Examiner
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NDHH
June 29, 2007



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